Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

50X1-HUM

Page Denied

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

C-O-N-F-I-D-E-N-T-I-A-L | SEE BOTTOM OF PAGE FOR SPECIAL CONTROLS, IF AN

INFORMATION REPORT

PREPARED AND DISSEMINATED BY
CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law. 50X1-HUM

COUNTRY
Hungary/USSR

SUBJECT
Central Physical Research Institute/Uranium Ore Shipping Routes/Destruction of Mining Equipment at Pecs/Soviet Abortive Atomic Explosions in Crimea/ Radar Unit Computer Manufacturing

DATE DISTRIBUTED
12 March 1957

NO. OF PAGES
4

NO. OF ENCLS.

SUPPLEMENT TO REPORT # 50X1-HUM

THIS IS UNEVALUATED INFORMATION

50X1-HUM

Central Physical Research Institute

1. 50X1-HUM Kozonti Fizkai Kutato Intezet (Central Physical Research Institute) facility, located on Konkoly Thege Road, in a northwest suburb of Budapest. 50X1-HUM

a drawing of the approximate layout of the institute /See page 2. infra/.

Budapest, Hungary, City Plan 1:15,000, showing the location of the following facilities: 50X1-HUM

a. Central Physical Research Institute on Konkoly Thege Road
b. Csonka Gepgyar (Csonka Machine Factory)
c. Gamma Optikai es Finommechanikai Muvek (Gamma Optical and Fine Mechanical Plant)
d. "Standard" (Belojannisz) plant
e. Magyar Opt Muvek (Hungarian Optical Works)
f. Television tower
g. Location of radar control center for all of Hungary. CONFIDENTIAL

50X1-HUM

head engineer, (Fnu) Mogyorosi, on the construction of the nuclear reactor model, which model, however, was to be operative and radioactive. Parts of this model were being worked on elsewhere 50X1-HUM
All of the buildings were finished at the institute facility except the reactor building, for which only the foundation had been dug. The foundation hole for the reactor building was 80 meters wide by 200 50X1-HUM

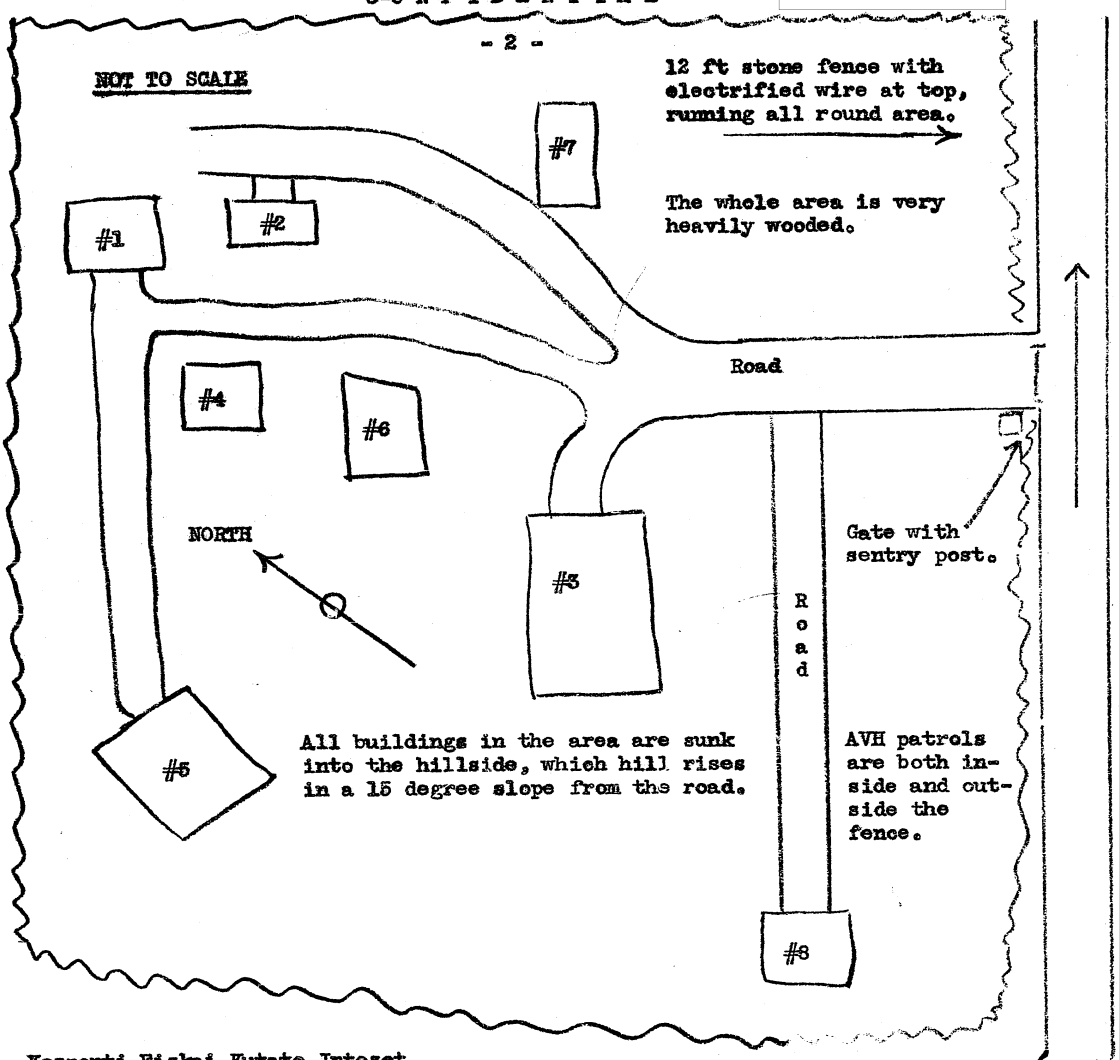
C-O-N-F-I-D-E-N-T-I-A-L

| DISTRIBUTION | STATE | ARMY | NAVY | AIR |

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

50X1-HUM



Kozponti Fizkai Kutato Intezet
(Central Physical Research Institute)

Buildings:

#1 Administration building
#2 Building built to house experimental model of reactor, which would be operative. No reactor in place as of June 1956.
#3 Foundation for main reactor building. 80m wide x 200m long x 5m deep. No concrete poured as of June 1956.
#4 Cyclotron building (10m wide x 25m long). Also used for photographing nuclear processes.
#5 Building used to construct and test nuclear testing instruments.
#6 Garage and tool shop.

50X1-HUM

#8 Secret police barracks

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

meters long by five meters deep.

exact acreage of the institute is quite extensive. It is surrounded by a 12 ft stone fence, which had an electric wire running along the top of the fence. The security police were all over the place, both inside and outside of the fence. The enclosed, and surrounding property is very heavily wooded, and the buildings are set into the hillside, which hillside runs in about a 15 degree slope from the road. 50X1-HUM
[See drawing.] this establishment would be very difficult to identify from the air. 50X1-HUM

the reactor was to be water cooled and the Soviet Union would furnish it. It was to be used to produce electricity, and the water for cooling purposes was to come from artesian wells 50X1-HUM
The scheduled completion date for the reactor was to be 50X1-HUM sometime in 1960. The reactor model, which was to become operative in October 1957, was approximately 30 ft long by 18 ft wide by 16 ft high in dimensions. The main reactor was to be four to six times the size of the model.

5. There were about 20 Soviets advisors at the facility 50X1-HUM
there were between 200 and 400 Hungarians working at the institute, and many secret police who were stationed permanently at the facility. 50X1-HUM
In 1953, a cyclotron was put in and experiments were started. There were Soviets and East Germans participating in the construction of the cyclotron 50X1-HUM
no other cyclotron located in Hungary, and this cyclotron at the institute was originally located at the University of Budapest.

6. the Hungarian senior staff of the institute were 50X1-HUM
constantly making trips to the Soviet Union for consultation and inspection of Soviet atomic facilities. 50X1-HUM
The Mag Physics Institute is the former Budapest Technical College. Lajos Janossy, who was deputy director of the Central Physical Research Institute under Istvan Kovacs, director, was formerly a professor at Mag Physics Institute. 50X1-HUM

The research program was under the direction of Istvan Kovacs, who was the boss of the institute.

Uranium Deposits and Shipment Routes

7. The uranium deposits at Pecs [46 05N, 18 13E] are being exploited, and supposedly there are uranium deposits in the Bakony mountains [47 15N, 17 50E] and at Urkut [47 05N, 17 38E], which the government said were bauxite mines, but were really uranium mines. 50X1-HUM
all of the ore is shipped to the Soviet Union. the ore is not processed chemically or physically in Hungary prior to being shipped to the Soviet Union. The USSR does not pay for the ore. The ore from Pecs is shippped over two routes by rail to the Soviet Union: 50X1-HUM

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

50X1-HUM

a) Pecs to Budapest to Szolnok /47 10N, 20 11E/ to Debrecen /47 31N, 21 39E/ to Nyiregyhaza /47 58N, 21 43E/ to Zahony /48 24N, 22 11E/ to Csap /48 26N, 22 13E/

b) Pecs to Baja /46 10N, 18 56E/ to Szeged /46 15N, 20 09E/ to Mako /46 13N, 20 29E/ and into Rumania.

50X1-HUM

during the revolution in late 1956, all of the mining equipment at the uranium mines at Pecs was destroyed. The government made the announcement that, because of this, the mines would not be operative for at least two years.

50X1-HUM

abortive atomic experiments in the Crimea in 1952, and again in 1954, the Soviets had had two unsuccessful atomic explosions.

50X1-HUM

there was a rumor that the Soviets were having a lot of trouble with heavy water.

Radar Unit Computer Manufacturing

50X1-HUM

10. The computer units that were made in my Gamma factory were the mechanical types, which were made from 1949 to 1953, at a rate of about 90 to 100 per mo. From 1953 to the present, the computers made are electronic, and

50X1-HUM

are not being mass produced, as there are many manufacturing problems. The mechanical computers are designated II, III, and IIII; the electronic computers are designated EI and EII.

50X1-HUM

The "Standard" (Belojannisz) plant may make some components

50X1-HUM

50X1-HUM

11. The Gamma plant made: microscopes, surveying transits, opera glasses, aiming devices for anti-tank guns and mortars, and binoculars.

50X1-HUM

The plant had about 2000 people working on three shifts per day. The Standard (Belojannisz) plant makes telephone switchboards, radio transmitters and receivers, and telephone sets, but no TV sets

50X1-HUM

Most of this equipment went to the Soviets.

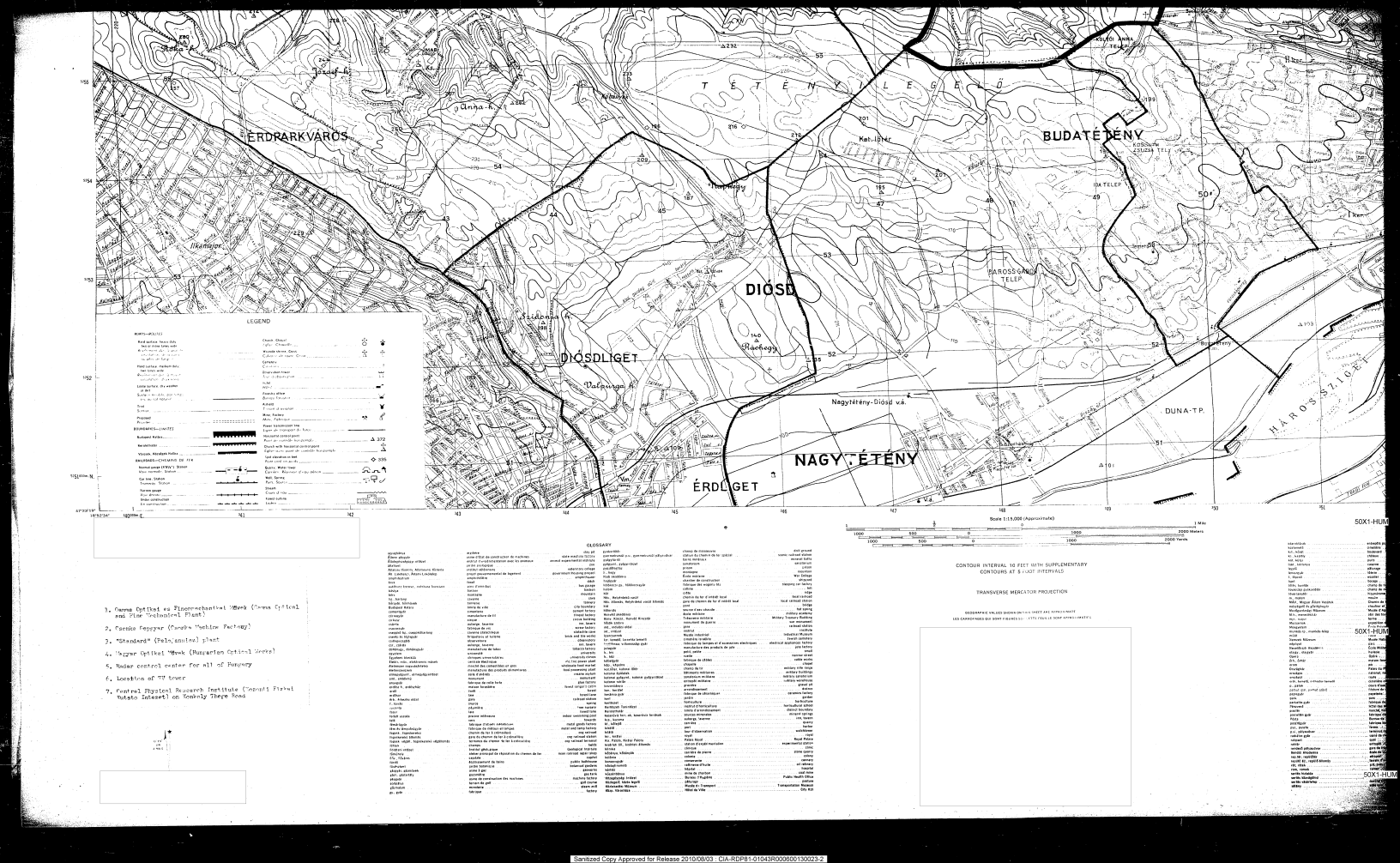
50X1-HUM

"Remix" produces radio transmitter tubes, "Tungsram" makes experimental vacuum tubes and miniature tubes, and "Orion" makes radio and TV sets for civilians.

50X1-HUM

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

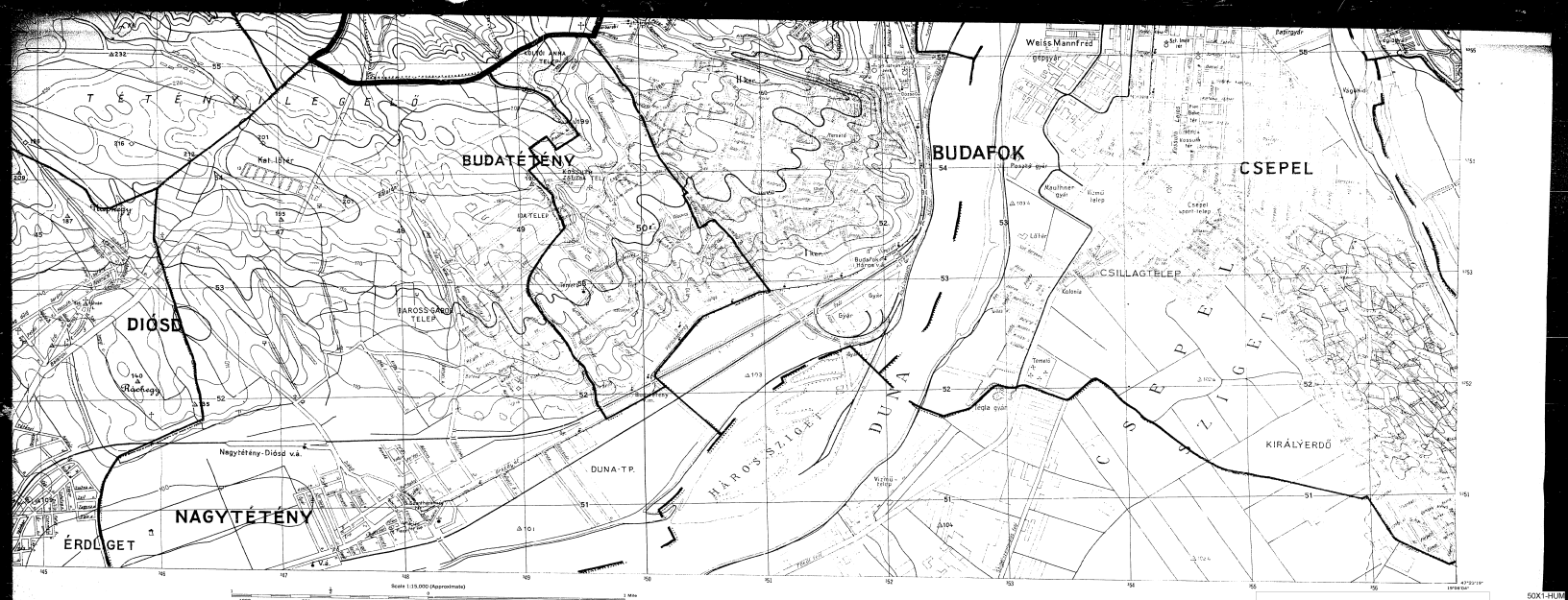
Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2



1. Gamma Optikai es Finomrechanikai Müvek (Gamma Optical and Fine Mechanical Plant)
2. Csepeli Fegyver (Csepel Machine Factory)
3. "Standard" (Pelz Aniline) plant
4. Magyar Optikai Müvek (Hungarian Optical Works)
5. Radar control center for all of Pomony
6. Location of TV tower
7. Central Physical Research Institute (Központi Fizikai Kutato Intezet) on Konkoly Thege Road

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2



50X1-HUM

50X1-HUM

BUDAPEST, HUNGARY

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

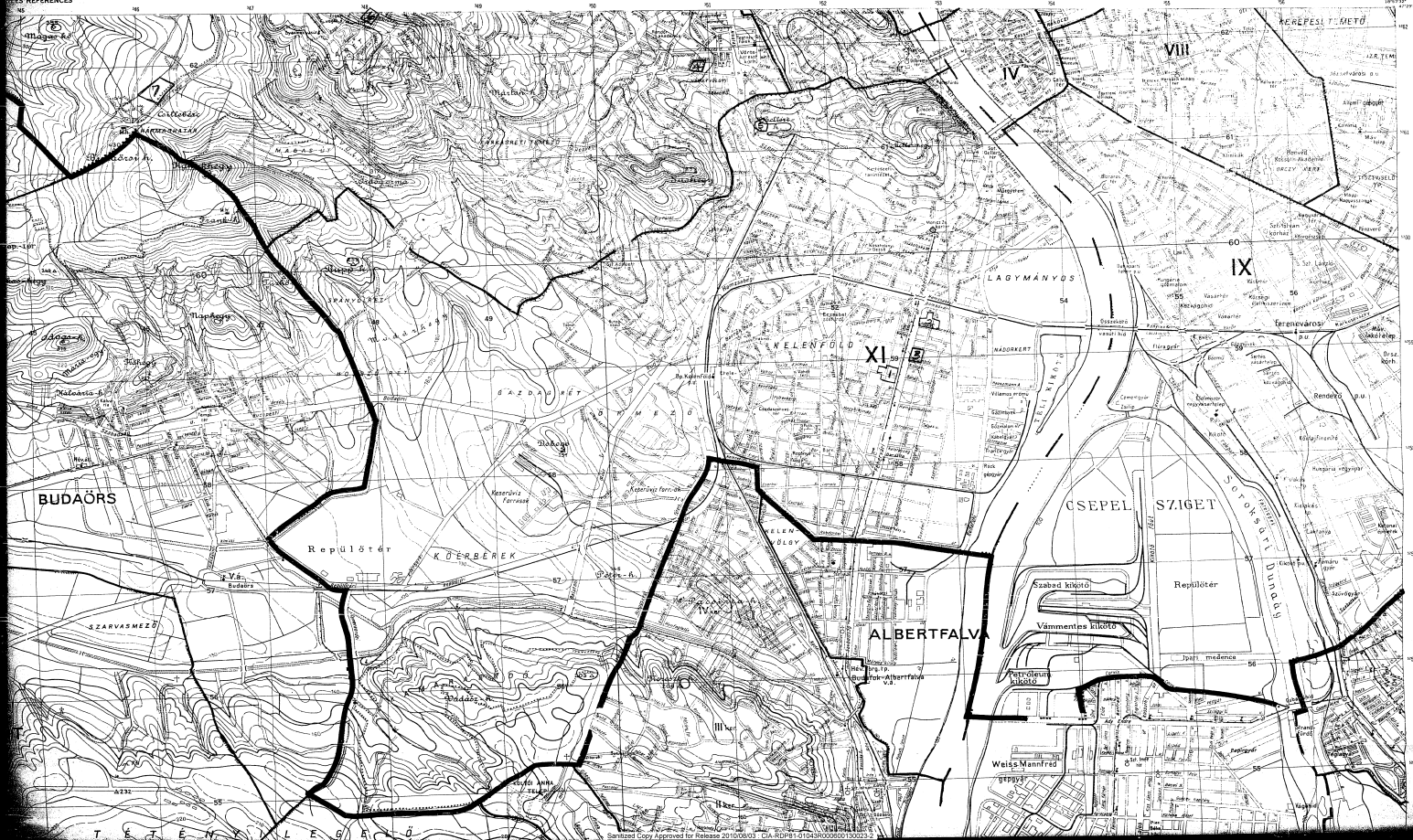
CONFIDENTIAL

BUDAPEST

EDITION 1-AMS

SHEET NO. 3
AMS SERIES M975

OXIMATE AND
DING ONLY
EST APPROXIMATIF
ES RÉFÉRENCES



Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

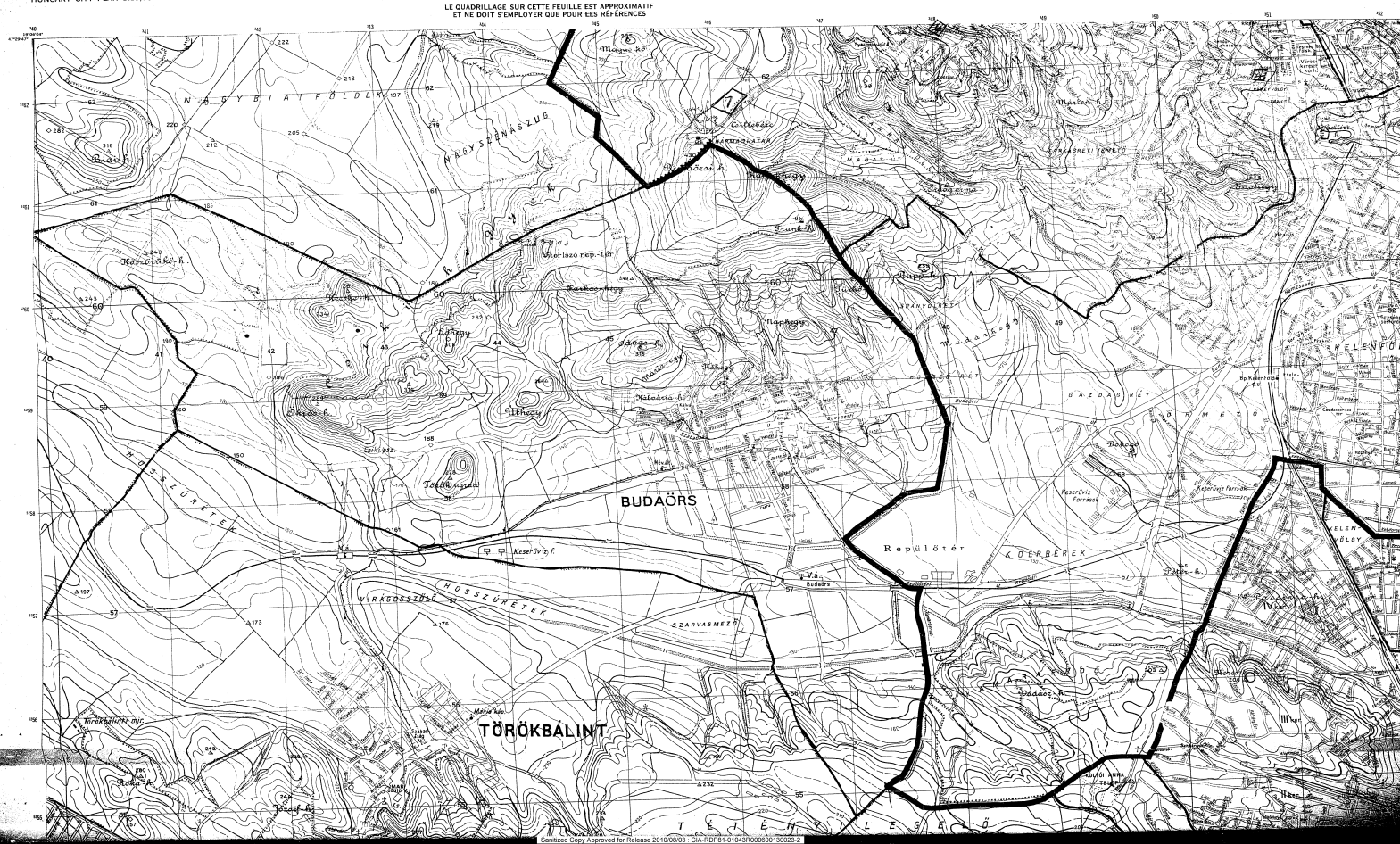
Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2

CONFIDENTIAL

HUNGARY CITY PLAN 1:15,000

BUDAPEST

THE GRID ON THIS SHEET IS APPROXIMATE AND SHOULD BE USED FOR REFERENCING ONLY
LE QUADRILLAGE SUR CETTE FEUILLE EST APPROXIMATIF ET NE DOIT S'EMPLOYER QUE POUR LES RÉFÉRENCES



Sanitized Copy Approved for Release 2010/08/03 : CIA-RDP81-01043R000600130023-2